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USU College of Engineering

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K. Kennedy

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UPEL student, Muhammad Muneeb, published a paper at ECCE 2014, the annual IEEE conference for Energy Conversion Congress & Expo. The paper, titled ‘Modular Approach for Continuous Cell-level Balancing to Improve Performance of Large Battery Packs’, highlights research on advanced battery management system (BMS) which improve battery pack lifetime and reduce cost and weight. The work extends existing state-of-charge balancing function to higher level pack performance objectives such as improving power capability and increasing pack lifetime. These advanced capabilities have the potential to significantly reduce initial battery pack cost and weight and increase the value of the battery pack for second use applications. This research work is part of AMPED project for which UPEL is working with a multi-disciplinary team at the University of Colorado at Boulder and Colorado Springs, a team at the National Renewable Energy Laboratory (NREL) and the Ford Motor Company. The project is funded in part by the United States Department of Energy’s Advanced Research Projects (ARPA-E).